



## INSPECTION CERTIFICATE

According to EN 10204 3.1

|           |                   |          |             |                    |                |
|-----------|-------------------|----------|-------------|--------------------|----------------|
| Client    | SWP               | Heat No. | 7494        | Date of Delivery   | Jan., 28, 2024 |
| Products  | <b>SUPER 6SG3</b> | Test No. | 5437494     | Date of Production | Jan., 2024     |
| Order no. | 43833             | Size     | 1.2mm(7342) | Date of Test       | Jan., 20, 2024 |

### All-weld-metal/Chemical analysis(%)-CO2/MIXED GAS

|      |      |      |       |       |       |       |       |       |       |       |      |
|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| C    | Si   | Mn   | P     | S     | Cr    | Ni    | Mo    | V     | Al    | Ti+Zr | Cu   |
| 0.09 | 0.97 | 1.78 | 0.013 | 0.012 | 0.006 | 0.005 | 0.003 | 0.002 | 0.002 | 0.04  | 0.22 |

### Welding conditions

|              |         |                |                         |                 |     |
|--------------|---------|----------------|-------------------------|-----------------|-----|
| Current type | DC+     | Arc voltage(V) | 22-26                   | Interpass temp. | 150 |
| Current(A)   | 220-260 | Shielding Gas  | EN ISO 14175-C1,M20,M21 |                 |     |

### All-weld-metal mechanical properties

#### Tensile test

|          |                |                       |                     |               |
|----------|----------------|-----------------------|---------------------|---------------|
| Test no. | Heat treatment | Tensile strength(MPa) | Yield Strength(MPa) | Elongation(%) |
| 5437494  | -              | 547                   | 468                 | 27            |

#### Impact test

| Test no. | Notch type | Test temperature | Shielding Gas | Impact value(J) |    |    |    |    | Average |
|----------|------------|------------------|---------------|-----------------|----|----|----|----|---------|
|          |            |                  |               | 1               | 2  | 3  | 4  | 5  |         |
| 5438162  | V          | -40              | M21           | 92              | 91 | 90 | 88 | 93 | 90.80   |
| 5437494  | V          | -40              | C1            | 82              | 83 | 84 | 83 | 81 | 82.60   |

|             |                         |               |
|-------------|-------------------------|---------------|
| Radiography | Bending test(Butt Weld) | Hydrogen Test |
| II          | OK                      | 2.75          |



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Standard no.: AWS A5.18 ER70S-6

EN ISO 14341-A-G 42 4C1 4Si1

EN ISO 14341-A-G 46 4M21 4Si1

DIN 8559 SG3

DOP Ref.: Super SG3 2014-001

EN13479:2017

Approvals: TÜV SÜD

CPR Certificate no.: 0036-CPR-S 128.2020.001

We hereby certify that the product described above "complies with the term of the order" and conforms with the related international standards"

Inspecting Department : QC Department

Inspector : **Jeremy Packer**

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